

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Gerard, Gary F.  
Smith, Michael  
Chatterjee, Deb

(ii) TITLE OF INVENTION: Compositions and Methods for Reverse  
Transcription of Nucleic Acid Molecules

(iii) NUMBER OF SEQUENCES: 23

10 (iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

(B) STREET: 1100 New York Avenue, Suite 600

(C) CITY: Washington

(D) STATE: DC

(E) COUNTRY: USA

(F) ZIP: 20005

15 (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

20 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

25 (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: (To be assigned)

(B) FILING DATE: (Herewith)

(C) CLASSIFICATION:

30 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 60/049,874

(B) FILING DATE: 17-JUN-1997

(C) CLASSIFICATION:

35 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 60/044,589

(B) FILING DATE: 22-APR-1997

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Esmond, Robert W.

(B) REGISTRATION NUMBER: 32,893

(C) REFERENCE/DOCKET NUMBER: 0942.4330002

(ix) TELECOMMUNICATION INFORMATION:

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(B) TELEFAX: 202-371-2540

DRAFTS/40527-042298

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(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 35 base pairs  
(B) TYPE: nucleic acid  
5 (C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AGGAGACCCA TATGACTGTT GCGCTACATC TGGCT

35

10 (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 34 base pairs  
(B) TYPE: nucleic acid  
15 (C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AACGCGACAG GTTAACAGCG CGCAAATCAT GCAG

34

20 (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 32 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

25 (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CACACACAGG TACCCTCTCG AAAAGTTAAA CC

32

(2) INFORMATION FOR SEQ ID NO:4:

0900644052 00000000000000000000000000000000

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cont  
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- 5           (i) SEQUENCE CHARACTERISTICS:  
              (A) LENGTH: 41 base pairs  
              (B) TYPE: nucleic acid  
              (C) STRANDEDNESS: both  
              (D) TOPOLOGY: both

              (ii) MOLECULE TYPE: cDNA

              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CACACACACT CGAGTTATGC AAAAAGAGGG CTCGCCTCAT C

41

              (2) INFORMATION FOR SEQ ID NO:5:

- 10           (i) SEQUENCE CHARACTERISTICS:  
              (A) LENGTH: 36 base pairs  
              (B) TYPE: nucleic acid  
              (C) STRANDEDNESS: both  
              (D) TOPOLOGY: both

15           (ii) MOLECULE TYPE: cDNA

              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GGACCCACTG TCTTTACCGC GGCCTCCTCA AGCACCC

36

              (2) INFORMATION FOR SEQ ID NO:6:

- 20           (i) SEQUENCE CHARACTERISTICS:  
              (A) LENGTH: 35 base pairs  
              (B) TYPE: nucleic acid  
              (C) STRANDEDNESS: both  
              (D) TOPOLOGY: both

              (ii) MOLECULE TYPE: cDNA

25           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CACACACACC CGGGTTAATA CGCTTGGAAAG GTGGC

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              (2) INFORMATION FOR SEQ ID NO:7:

              (i) SEQUENCE CHARACTERISTICS:

Sequence Database

20  
Feb 18  
2001

- 1 (A) LENGTH: 31 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

5 (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CACACACATC ATGACTGTTG CGCTACATCT G

31

(2) INFORMATION FOR SEQ ID NO:8:

- 10 (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 29 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

CACACACAGG TACCCTCTCG AAAAGTTAA

29

(2) INFORMATION FOR SEQ ID NO:9:

- 20 (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 48 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

25 CACACACAGA GGAATTCACT GATGGTGATG GTGATGTGCA AAAAGAGG

48

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 41 base pairs

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- (B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

ACTGGAATTCA ATGCCAATCC ATCACCATCA CCATCACCCG T

41

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 41 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

15 ACGTGTGAC CATATGGATG ACTAGGTGAA ACAGGGTGATG G

41

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

ACTGGAATTCA ATGCCAATCC ATCACCATCA CCATCACCCG TTTCACCTAG TCATCCATAT

60

25 GGTCGACACG T

71

(2) INFORMATION FOR SEQ ID NO:13:

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Cont

- 5           (i) SEQUENCE CHARACTERISTICS:  
              (A) LENGTH: 48 base pairs  
              (B) TYPE: nucleic acid  
              (C) STRANDEDNESS: both  
              (D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

GACTAGTTCT AGATCGCGAG CGGCCGCCA TTAACCTCTCG TTGGCAGC

48

(2) INFORMATION FOR SEQ ID NO:14:

- 10           (i) SEQUENCE CHARACTERISTICS:  
              (A) LENGTH: 16 base pairs  
              (B) TYPE: nucleic acid  
              (C) STRANDEDNESS: both  
              (D) TOPOLOGY: both

15           (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

TCGACCCACG CGTCCG

16

(2) INFORMATION FOR SEQ ID NO:15:

- 20           *bul 38 cont*  
(i) SEQUENCE CHARACTERISTICS:  
              (A) LENGTH: 12 base pairs  
              (B) TYPE: nucleic acid  
              (C) STRANDEDNESS: both  
              (D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

25           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CGGACGCGTG GG

12

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

5 (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

AUGGAGAU**C**U CUGA**T**TCAT GACTGTTGCG CTACATCTGG CT

42

(2) INFORMATION FOR SEQ ID NO:17:

- 10 (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 32 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

ATTATT**C**ATA TGACTGTTGC GOTACATCTG GC

32

(2) INFORMATION FOR SEQ ID NO:18:

- Sub 38*  
17 (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

25 TACGATCTCT CTCCAGGCCA TTTT

24

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 24 base pairs

- (B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

ACTCGAGCAG CCCGGGAACC TTTG

24

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 48 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

15 ATTACCCGGG AGGATATCAT ATGTTAGCGA TGACAATGGA ACATAAAG

48

(2) INFORMATION FOR SEQ ID NO:21:

- Seq 38*  
*cont 20*  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 36 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

ATATGTCGAC TCACAGTGGC CCTCCCTATA AATTTG

36

25 (2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 35 base pairs  
(B) TYPE: nucleic acid

- (C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

5 TATTAGGATC CCATGACTGT TGCGCTACAT CTGGC

35

*Subj 18*  
*10*  
(B) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 29 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: both  
(D) TOPOLOGY: both

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GCAATCCTTG AGCTCTAAGA CCATCAGGG

29